STANFORD UNIVERSITY MEDICAL CENTER

DEPARTMENT OF GENETICS

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Dr. Frank Young
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University of Rochester School of Medicine
Rochester, New York 14642

Dear Frank,

I was very glad to see Microbiology 76, which just arrived on my desk, and appears to be an extremely useful conspectus about the present situation in <u>Bacillus subtilis</u>. Of course there are many things that have happened even since the collection of those papers but that is only for the better.

I was particularly glad that you undertook to review the earlier history of the development of biochemical genetics in subtilis. But I was disappointed that you overlooked the initial report by Burkholder and Giles (American Journal of Botany, 34:345-348) 1947, which was the original source of most of the biochemical mutants that were done in the early work on the organism. Charles Yanofsky came to Yale, I believe, in the next year, and certainly picked up his strains from <u>Burkholder</u> and Giles including for the purposes you mentioned of further studies on tryptophan metabolism. The use of subtilis for getting biochemical mutants was to be sure a "me too" kind of thing and was very much under the encouragement of Tatum's previous work.

What you have no way to know is a story that I have to tell on myself: namely that in early 1947 I tried crossing some of these strains, did get a few prototrophs but could not be sure they were not reversions stimulated by cross-feeding of the 2 parental strains; and did not pursue the matter any further! I had plenty to do with crossing in those days; but would certainly have been excited enough to be able to get into å transforming system. But the only thing I wanted to pass on to you for the record was the Burkholder Giles reference.

Sincerely yours,

Joshua Lederberg
Professor of Genetics

JL/rr